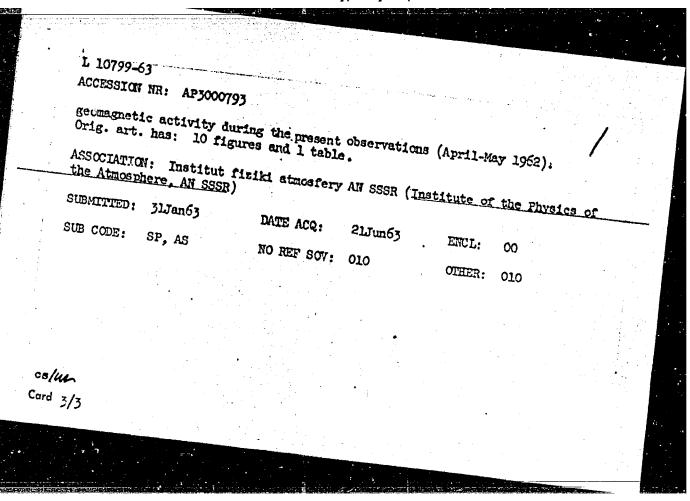
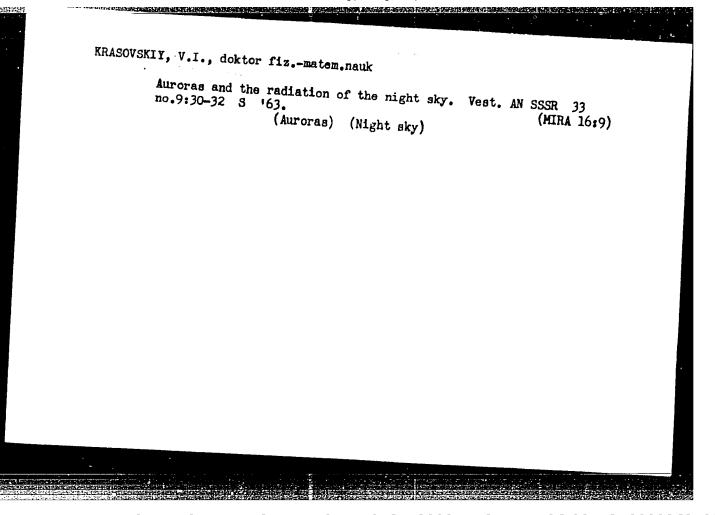
L 10799-63 EWT (1)/FCC (w)/FS(v)/BDS/ES(v)--AEDC/AFFTC/ASD/AFMDC/ESD-3/ APOC--Po-Li/Pg-Li/P1-Li/P0-Li/Pq-Li-TT/GW ACCESSION NR: AP3000793 3/0203/63/003/003/0403/0416 AUTHOR: Krasovskiy, V. I.; Gal'perin, Yu. I.; Tennyky, V. V.; Mulyarchik, T.M.; Dzhordzhio, N. V.; Marov, M. Ya.; Bolymova, A. D. TITIE: Some new results of geophysical studies made by Kosmos-3 and Kosmossatellites SCURCE: Geomagnetizm i aeronomiya, v. 3, no. 3, 1963, 408-416 TOPIC TAGS: Kosmos-3, Kosmos-5, radiation belt, particle counter, upper atmosphere radiation, radiation, upper atmosphere Cosmos-3, Cosmos-5 AESTRACT: Concentrations and intensities of charged particles as measured by the Kosmos-3 and Kosmos-5 satellites are analyzed. The satellites used combinations of three types of recorders 1) a collector tube with fluorescent screen sensor and photomultiplier, 2) an ion trap with a ring electrode collector located in a permanent magnetic field, and 3) a Geiger counter with a 3-mm lead shield, which registered only electrons above 0.4 Mev and protons above 50 Mev. Particles recorded by these sensors fell into three energy

L 10799-63 ACCESSION NR: AP3000793

groups: 1) high-energy protons and electrons recorded by the Geiger counter, 2) electrons of about 100 Kev; and 3) electrons of the order of 1--10 Kev. No observable correlation appears to exist among these groups. Isoline contours in earth coordinates are given for groups 1 and 2 showing their energy distribution over the South Atlantic region, where intensity was maximum. These data are in the 650-km altitude region and show that the coordinates of maximum intensity areas shifted with succeeding passes of the satellite. Some possible explanations for this shift are suggested, which are postulated on the lifespan of the particles relative to satellite orbit time. In equatorial latitudes at a 200-400-km altitude the Geiger count did not average over 1.8 pulses/sec. In contrast, the Geiger count recorded by Kosmos-5 in the vicinity of apogee (1600 km) exceeded 1500 pulses/sec and showed a strong periodicity with satellite rotation, indicating that these high-energy particles are trapped in the geomagnetic field and moving normal to its lines of force. Group 3 electrons, which were sporadic in appearance and located mainly in the polar latitudes, varied in intensity proportionally with altitude. The retarding of the satellites due to particle friction at the perigees (200 km for Kosmos-5) was noted to be less than for the 1958 sputniks, which indicates less

Card 2/3





KRASOVSKIY, V.I.; TRUTTSE, Yu.L. and SHEFOV, N.N.

"Problem relating to the Power of Aurorae"

"On the mechanism of maintenance of Nocturnal Ionosphere."

Properties and the control of the co

Report submitted for the GOSPAR Fifth International Space Science Symposium, Florence, Italy, 8-20 May. 1964

。 《1984年18月1日 1985年 1986年 1988年 198

ACCESSION NR: AP4034793

\$/0293/64/002/002/0219/0231

AUTHOR: Krasovskiy, V. I.

TITLE: Auroras and night airglow

SOURCE: Kosmicheskiye issledovaniya, v. 2, no. 2, 1964, 219-231

TOPIC TAGS: geophysics, upper atmosphere, night airglow, aurora, solar wind, geomagnetic disturbance, interplanetary plasma, geomagnetic field

ABSTRACT: A report presented by the author at a plenary session of the COSPAR symposium in Warsaw on June 4, 1963 has now been published. The paper essentially represents a review of the literature on auroras and night airglow (60 papers were cited in the report). In many cases the summarization is accompanied by critical problems. In conclusion, the author notes that exhaustive data concerning these processes are by no means yet available and there is no finalized acceptable theory accounting for their occurrence. Despite the length of the report the speaker disciplings any intention of presenting a review of the hypotheses on this problem. He expresses the opinion that auroras represent one of the most important links in the processes of interaction between the geomagnetic field and interplanetary plasma (or aird 1/2).

"APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R000826210

ACCESSION NR: AP4034793

Interplanetary magnetic fields, and also the interaction of the upper atmosphere with the geomagnetic field at the time of its rotation.

ASSOCIATION: none

SUBMITTED: 00 DATE ACQ: 20May64 ENCL: 00

SUB CODE: ES, AA NO REF SOV: 016 OTHER: 0444

Card 2/2

EWT(1)/FSS=2/FS(v)-3/EWG(s)-2/EWG(v)/FCC/EWA(d)/EEC-4/EEC(t)/EWA(h)Po-4/Pe-5/Po-4/Pae-2/Peb/P1-4 TT/GN-2 ACCESSION NR: AP5009653 UR/0293/65/003/002/0334/0336 AUTHOR: Krasovskiy, V. I. TITIE: Iono deric winds and paquitarities in the distribution of charged 60 particles (v the geomegnetic field SOURCE: Kosmicheskiye issledovaniya, v. 3, no. 2, 1965, 334-336. TOPIC TAGS: geomagnetic field theory, ionospheric wind, satellite observation, geomagnetism, charged particle distribution, upper atmosphere ABSTRACT: The author considers the hypothesis of D. G. King-Hele (Planet. Space Sci., 12, No. 9, 835, 1964) to the effect that there are considerable winds in the upper regions of the atmosphere at heights of 200-300 km. These winds are said to blow in an easterly direction with a velocity (with respect to the Earth) which may exceed 104 cm · sec.-1. As one possibility, King-Hele suggests that these wind movements are generated by the flow-off of air, highly heated over the equator, toward the poles, where the temperature of the outer atmosphere is lower. According to the author of this article, if the King-Hele postulate is actually correct, then this circulation must also have an effect on the distribution of captured charged particles in the geomagnetic field. Reasoning along these lines, the author demonstrates that if the wind velocity along geographic parallels has a

L 41816-65 ACCESSION NR: AP5009653 value on the order of 3.10 cm.sec-1, the emf might reach 10-4 volts per cm-1 along the geomagnetic meridian in a direction perpendicular to the geomagnetic lines of force. Consequently, by way of example, in the 1000-km segment, an emf would arise which would be as high as 104 volts, while between the equatorial ionosphere and the geomagnetic tubular channels resting on the polar regions the emf would exceed this value. In this case, the electric field intensity in the equatorial plane at the height of about one terrestrial radius might be near 10-4 volt · cm-1. The author also notes that if the axis of rotation of the Earth were to coincide with the axis of an ideal central magnetic dipole, there would exist, near the equatorial plane, an electrical field, identical in magnitude and direction at all long!tudes and perpendicular to the geomagnetic lines of force, in which case the drift surfaces of the trapped charged particles would remain unchanged in comparison with the drift in an electrically neutral geomagnetic field. The author describes in detail how this picture changes substantially when the geomagnetic dipole, for example, is shifted considerably away from the axis of rotation of the Earth with the parallelism of the axis left undisrupted. It is claimed that observations made by means of the Kosmos-3 and Kosmos-5 satellites confirm the authenticity of the pattern which the author has theoretically reconstructed in this part of the article. During geomagnetic perturbations and polar light phenomena (aurora borealis), the outer region of the atmosphere over the high latitudes may be even hotter than over the equator. In this wase, the geostrophic wind from the equators

conditions ASSOCIATION	NR: AP500 may temporense heat may flow or anges in or is also di None	orarily ceas ing of the o off in the d trapped char lacussed.	e. There uter regio irection o ged partic	is even the solution of the equales as a re	e possibil polar atmo tor. The esult of i	ity, in the sphere, the effect of onospheric	e event at the possible wind	2
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L 21030-66 FSS-2/EWT(1)/FCC/EWA(d)/EWA(h) ACCESSION NR: AT5023553 TT/GS/GW UR/0000/65/000/000/0011/0023 AUTHOR: Krasovskiy, V. I. TITLE: Physics of the upper atmosphere and circumterrestrial space 13 SOURCE: Vsesoyuznaya konferentsiya po fizike kosmicheskogo prostranstva. B+1 1965. Issledovaniya kosmicheskogo prostranstva (Space research); trudy konferentsii. TOPIC TAGS: artificial earth satellite, Kosmos series satellite, ionosphere, circumterrestrial space, ionosphere heating, atmospheric emission, magnetosphere, radiation belt, polar slow ABSTRACT: Circulation processes and the following associated problems in the upper atmosphere above 100-150 km are discussed: 1) heating of the upper atmosphere; 2) atmospheric emissions; 3) the electric field in the magnetosphere and the drift of charged particles; 4) the earth's radiation belts under the effect of the magnetospheric electric field; and 5) polar glow and the interaction of the solar wind with the magnetosphere and ionosphere. It is noted that the usefulness of artificial earth satellites and rockets for observations of polar glow is limited, owing to their relatively high velocity through the highly Card 1/2

ACCESSION NR: AT5023			· ·	
immobile and concentr 41 references, of whi principally by means has: 3 figures.	ated forms of luminescence 24 are Soviet. The Soviet the Kosmos-series arti	e regions. The viet data analyze ficial earth park	review is based ad were obtains	d on
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ASSOCIATION: none			•	(YK)
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SKURIDIN, G.A., otv. red.; AL'FERT, Ya.L., red.; KRASOVSKIY, V.I., red.; SHVAREV, V.V., red.

[Studies of outer space; transactions] Issledovaniia kosmicheskogo prostrenstva. Moskva, Nauka, 1965. 622 p.

(MIRA 18:12)

1. Vsesoyuznaya konferentsiya po fizike kosmicheskogo prostranstva, Moscow. 1965.

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R0008262100

KRASOVSKIY, V. K., Cand. Tech. Sci. (diss) "Manufacture of Heavy boda by Monohydrate Method with Phase of Dehydration in "Boiling" Layer, "Khar'kov, 1961, 15 pp. (Khar'kov Polytech. Inst.)

150 copies (KL Supp 12-61, 269).

RYDNIK, V.L.; KRASCVSKIY, V.K.; TRIPOL'SKIY, A.A.

Necessity for organizing heavy soda production. Khim. prom. 41 no.3: 200-201 Mr '65. (MIRA 18:7)

1. Nauchno-issledovatel'skiy institut osnovnoy khimii, Khar'kov.

"APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R000826210

ENP(m)/EMO(v)/ENA(c)/ENT(1)/FCS(k)Pd-1/Pe-5 UR/0258/65/005/002/0249/0253 AP5011318 ACCESSION NR: AUTHOR: Krasovskiv. V. M. (Moscov) TITLE: An experimental investigation of hypersonic flow over blunt-nosed bodies SOURCE: Inzhenermyy shurnel, v. 5, no. 2, 1965, 249-253 TOPIC TAGS: hypersonic flow, hypersonic flow over cone, hypersonic area rule, drag coefficient, skin friction, boundary layer interaction, reference enthalpy method. lift ABSTHACT: A hypersonic flow of helium over blunt bodies was investigated in order to substantiate the hypersonic area rule. The experiments were carried out on blunted bodies of simple form equivalent to a circular cone with semispex angle β = 5°, that is, trihedral and tetrahedral pyramids and a certain body of more complex form composed of several cones at M \cong 18 and R \sim 10 (see Fig. 1 of the Enclosure). The axis of the corresponding cross sections of all bodies was the same. The results obtained with various models at zero angle of attack are given in graphs with $C_{\rm x}$ versus $K_1 = (\pi/2C_{\rm x}S)^{1/2}$ L tan 2 β , where $C_{\rm x}$ is the ratio of the drag coefficient of the body and the drag coefficient of an equivalent sharpnosed cone. The drag coefficient Cx due to blunting was taken to be equal to 1.6

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ACCESSION NR: APSOLI 318

2

for all shapes with flat blunting, according to experimental data. It was observed that the drag coefficients of equivalent bodies can differ substantially in the case of slightly blunted bodies such as trihedral pyramidal and circular cones in the range K > 0.3. The drag coefficients of sharp-nosed cones were computed with skin friction and shock wave-boundary layer interaction taken into account. Skin friction drag was determined by a reference enthalpy method. The discrepancy between the experimental and the calculated values of the drag coefficient was found to be less than 5%, and the drag coefficient of a cone with semiapex angle of 5° is smaller, not larger than the coefficients of the equivalent sharp-nosed pyramids as follows from Newton's theory. An analysis of the results obtained by the author with those of others shows that: 1) the hypersonic area rule is satisfied for a certain class of bodies equivalent to circular cones; 2) the drag coefficient of blunt-nosed cones at least does not exceed that of a sharp-nosed cone in a certain range of Ke, within the limits of accuracy of the experiments; and 3) blunting of a conical nose leads to a substantial decrease in lift in comparison with a sharp-nosed cone at small values of the angle of attack. Orig. art. has: 4 figures.

ASSOCIATION: none

Card 2/4

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000826210

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CIA-RDP86-00513R000826210

KRASOVSKIY, U.P.

USSR/Biology--Zoology

Card 1/1

Pub. 86--33/39

Authors

Makridin, V. P., Cand. Biol. Sc., and Krasovskiy, V. P.

Titlo

The expansion of the area of the elk.

Periodical

Priroda 44/1, page 119, Jan 1955

Abstract

The prevalent idea that the areas inhabited by the elk are limited to forest lands is refuted by the finding of elk in regions where they were not known to be before, especially in the northern European tundras. It is also noted that elk make seasonal migrations. One USSR reference (1944).

Institution :

Scientific Research Institute of Polar Agriculture, Animal Husbandry and Industry

Submitted

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14-57-7-15098

Translation from: Referativnyy zhurnal, Geografiya, 1957, Nr 7,

p 147 (USSR)

AUTHOR:

Krasovskiy, V. P.

TITLE:

Reestablishment of Beavers on the Khoper hiver

(Reakklimatizatsiya bobrov na reke Khopre)

PERIODICAL:

Tr. Khopersk. gos. zapovednika, 1956, Nr 2, pp 73-96

ABSTRACT:

All the beavers of the Khoper River descend from 20 animals which were released in the game preserve during 1937 and 1939. The beavers started to spread out in 1943. At first they were found only in old river beds, but after 1950 they were found on the banks of the Khoper River. In 1953 there were 77 beaver settlements on 64 bodies of water in the game preserve, while 380 or 390 beavers occupying 102 settlements on 82 bodies of water, were counted in the Khoper River basin. High floods of the Khoper

Card 1/2

Reestablishment of Beavers on the Khoper River (Cont.)

River, which coincide with the season when the young were born, did not affect their numbers. However, the recent drying up of water had a detrimental effect on the beavers. The author cites an incident in which a pair of beavers did not abandon a dried area; instead, they burrowed to below the ground water level and continued to live there for several years. The author lists the plants which supply the beavers with food.

Card 2/2

L. D.

SKVORCHEVSKIY, N.D.; KRASOVSKIY, V.P.; DOVROVOL'SKIY, S.I.; SHUEMAN, B.A.

First experience of the use of EKG excavators. Gor. shur. no.1:
58-61 Ja '57. (MIRA 10:4)

1. Glawnyy inzhener Kounradskogo rudnika (for Skvorchevskiy).
2. Noril'skiy; garno-metallurgicheskiy kombinat. (for Krasovskiy, Dobrovol'skiy, Shurman).

(Excavating machinery)

KHACHATUROV, T.S.. Prinimeli uchastiye: BAKULKV, G.D., doktor ekon.nauk; VAYNSHTEYN, B.S.; VARKNTSOV, Ya.P.; KLIMANKO, K.I., doktor ekon.nauk; KRASOVSKIY, V.P., kand.ekon.nauk; KURAKOV, I.G.; FEHBERG, A.S., kand.ekon.nauk. SHUSTER, A.I., otv.red.; STREL'NIKOVA, M.A., red.; GERASIHOVA, Ye.S., tekhn.red.

[Standard method for determining the economic effectiveness of capital investments and new technology in the national economy of the U.S.S.R.] Tipovaia metodika opredeleniia ekonomicheskoi effektivnosti kapital'nykh vlozhenii i novoi tekhniki v narodnom khoziaistve SSSR. Moskva, Gosplanizdat, 1960. 21 p. (MIRA 13:7)

1. Akademiya nauk SSSR. 2. Chlen-korrespondent Akademii nauk SSSR (for Khachaturov). 3. Institut ekonomiki AN SSSR (for Bakulev, Klimenko).
4. Institut ekonomiki stroitel'stva Akademii stroitel'stva i arkhitektury SSSR (for Vaynshteyn). 5. Gosplan SSSR (for Varentsov).
6. Nauchno-issledovatel'skiy ekonomicheskiy institut Gosplana SSSR (for Krasovskiy). 7. Gosudarstvennyy nauchno-tekhnicheskiy komitet SSSR (for Kurakov). 8. Stroybank SSSR (for Ferberg). 9. Nauchnyy sovet po probleme ekonomicheskoy effektivnosti kapital'nykh vlozheniy i novoy tekhniki (for Shuster).

(Capital investments) (Machinery in industry)

KLIMENKO, Konstantin Ivanovich, doktor ekonom.nauk; KATSENELINBOYGEN, Aron Iosifovich, kand.ekonom.nauk; OGADA, P.A., red.; KRASOVSKIY, V.P., spetsred.; GERASIMOVA, Ye.S., tekhn.red.

[Economic efficiency of over-all mechanization and automation in the machinery industry] Ekonomicheskaia effektivnost kompleksnoi mekhanizatsii i avtomatizatsii v mashinostroenii. Moskva, Gosplanizdat, 1960. 221 p.

(MIRA 14:2)
(Automation) (Machinery industry--Technological innovations)

KHACHATUROV, T.S., otv. red.Prinimali uchastiye: BOR, M.Z., kand. ekon. i istor. nauk, red.; BOL'SHAKOV, Ya.A., red.; DYLEVSKIY, A.A., red.; YEMEL'YANOV, A.D., kand.ekon. nauk, red.; KRASOVSKIY, V.P., red.; SHUSTER, A.I., red.

[Methodology for determining the economic efficiency of introducing new machinery, mechanization and autoration of industrial production processes. Approved by the State Planning Commission of the U.S.S.R. on December 9, 1961]Metodika opredeleniia ekonomicheskoi effecktivnosti vnedreniia novoi tekhniki, mokhanizatsii i avtomatizatsii proizvodstvennykh protsessov v promyshlennosti. Utverzhdeno 9 dekabria 1961 g. Moskva, Izdvo Akad. nauk SSSR, 1962. 45 p. (MIRA 15:11)

1. Russia (1923- U.S.S.R.)Gosudarstvennaya planovaya komissiya.
2. Chlen-korrespondent Akademii nauk SSSR (for Khachaturov).
3. Gosudarstvennyy planovyy komitet Soveta Ministrov SSSR (for Bor, Dylevskiy). 4. Moskovskiy oblastnoy sovet narodnogo khozyaystva (for Bol'shakov). 5. Nauchno-issledovatel'skiy ekonomicheskiy institut Gosudarstvennogo ekonomicheskogo soveta pri Sovete Ministrov SSSR po tekushchemu planirovaniyu narodnogo khozyaystva (for Yemel'yonov, Krasovskiy). 6. Akademiya nauk SSSR (for Shuster).

(Technological innovations) (Automation)

BOCHAROV, V.N.; DUDAYEVA, L.M.; YEVPOKEAOV, V.M.; KOLOSOV, A.F.;

KRASOVSKIY, V.P.; LUK'YANOV, E.B.; MUSATOVA, V.A.; NOVIKOV,
M.S.; SUKHOVANCHENKO, G.P.; TABELEV, V.V.; TOLKACHEV, A.S.;
CHERTKO, V.F.[deceased]; SHTANSKIY, V.A.; PAK, G.V., red.;
SELESNEVA, A.D.; mlad. red.

[Structure of capital investments in the U.S.S.R. and the U.S.A.; analysis and methods of com; arison] Struktura kapital'nykh vlozhenii SSSR i SShA; analiz i metody sopostavleniia. Moskva, Ekonomika, 1965, 250 p. (MIRA 18:5)

1. Moscow. Nauchno-issledovatel'skiy ekonomicheskiy institut.

KVASHA, Ya.; KRASOVSKIY, V.

Reproduction of capital assets and establishing norms for capital expenditures. Vop. ekon. no.9:47-59 S 162. (MIRA 15:9) (Capital investments) (Capital)

KVASHA, Ya.; KRASOVSKIY, V.

Interbranch balance and its relation to planning capital investments. Vop. ekon. no.7:48-58 Jl '63. (MIRA 16:8) (Economics, Mathematical) (Capital investments)

L 10285-66 EWT(1)/EWT(m)/EWP(t)/EWP(b) IJP(c) JD/GG ACC NR: AP5025320 SOURCE CODE: UR/0126/65/020/003/0373/0378

AUTHOR: Fakidov, I. G.; Volegov, L. P.; Krasovskiy, V. P.

ORG: Institute of Physics of Metals, AN SSSR (Institut fiziki metallov AN SSER)

TITLE: Magnetoelastic properties of antiferromagnetic compound MnAv₂

SOURCE: Fizika metallov i metallovedeniye, v. 20, no. 3, 1965, 373-378

TOPIC TAGS: intermetallic compound, antiferromagnetism, elastic modulus, magnetic property, elasticity, antiferromagnetic material, shear modulus, manganese compound, gold compound

ABSTRACT: Polycrystalline cylindrical samples of MnAu₂ were made by smelting at 1100C a mixture of Mn (99.98% pure) and Au (99.99%), subsequent casting, and heat treatment providing magnetic properties described by A. Meyer and P. Taglang (J. Phys. Rad., 1956, 17, 457). The intermetallic compound had a helicoid spin structure, a Ngel temperature $T_N = 90C$, a threshold $H_t = 8000$ oe, and a density 0 = 15.4 g cm⁻². The changes in the shear modulus G and the Young modulus E were determined under changing conditions of temperature (20 = 140C) and external magnetic field. The curves showing relative changes of shearing modulus G/G_0 Cgrd 1/2

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ACC NR: AP5025320

(Go at 20C was 11.56x10 dyne/sq cm) with temperature were plotted for the sample in the antiferromagnetic (H = 0) and ferromagnetic state (H = 18,000 oe). The curve H = 0 showed that G decreased with increased temperature, reached a minimum at 800C, acquired a maximum in the Neel point (TN = 96C), and decreased continuously in the paramagnetic region. The G of MnAu₂ changed little with increased field to the threshold value (H = 8000 oe), then sharply decreased and reached a minimum at H = 16,000 oe. The shearing modulus G of MnAu₂ in the ferromagnetic state (H = 18,000 oe) did not exhibit any noticeable anomalous changes during the antiferromagnetism —) ferromagnetism transition in the Curie point. The changes in anomaly of the shearing modulus during the antiferromagnetism-ferromagnetism transition were sharper than those of the Young modulus. This was related possibly to the helicoid distribution of magnetic moments. The anomalous behavior of the Young and shearing moduli was a result of digintegration of the helicoid spin structure brought about by the magnetic transformations antiferromagnetism —> paramagnetism (T= TN and H =10), and antiferromagnetism —> ferromagnetism (T< TN and H >H₂). Orig. art. has: 5 figures.

SUB CODE: 20 / SUBM DATE: 14Sep64/

NR REF SOV: 004/ OTHER: 007

Card 2/2

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"APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R000826210

137-58-6-11894 D

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 6, p 101 (USSR)

AUTHOR:

Krasovskiy, V.

TITLE:

Economic Effects of the Introduction of New Process Procedures in Nonferrous Metallurgy (Based on a Comparison of Variants in the Copper and Nickel Industry) [Ekonomicheskaya effektivnost' vnedreniya novykh tekhnologicheskikh protsessov v tsvetnoy metallurgii (na primerakh svravneniya variantov v medno-nikelevom proizvodstve)]

ABSTRACT:

Bibliographic entry on the author's dissertation for the degree of Candidate of Economic Sciences, presented to the Mosk. in-t tsvetn. met. i zolota (Moscow Institute of Nonferrous Metals and Gold), Moscow, 1957

ASSOCIATION: Mosk. in-t tsvetn. met. i zolota (Moscow Institute of Nonferrous Metals and Gold), Moscow

1. Copper--Processing 2. Nickel--Processing 3. Copper--Economic aspects

4. Nickel--Economic aspects

Card 1/1

KRASONSKIY, W.P.

136-10-11/13

. AUTHOR: Krasovskiy, V.P.

TITLE: Economic Effectiveness of Progressive Methods of Separating Converter Mattes. (Ekonomicheskaya effektivnost' progressivnykh

metodov razdeleniya faynshteynov)

PERIODICAL: Tsvetnyye Metally, 1957, Nr 10, pp.72-79 (USSR)

ABSTRACT: The author points out the difficulties of estimating the economic advantages of introducing new plant in view of technical progress, the time needed for operators to get accustomed to the plant, the expected cheapening of energy and materials, the possibility of integrating new plant in still later processes and other factors. He considers in detail the case of the separation of converter mattes in the copper-nickel industry, where the recently introduced flotation process of Professor I.N.Maslenitskiy may itself be replaced by the autoclave method on which experiments have been carried out by the Gipronikel' and Gintsvetmet organizations and some works. He shows the application of his dynamic criteria to such a possible replacement, tabulating cost factors for 15-year periods, stating the simplifying assumptions used and discussing the significance of the results. There are 2 tables and 1 Slavic reference.

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THE RESIDENCE OF THE PROPERTY OF THE PROPERTY

SOV/126-7-1-26/28

AUTHORS: Fakidov, I.G. and Krasovskiy, V.P.

TITLE: Electrical Conductivity of Manganese Phosphides (Elektroprovodnost' fosfidov margantsa)

PERIODICAL: Fizika Metallov i Metallovedeniye, 1959, Vol 7, Nr 1, pp 156-157 (USSK)

ABSTRACT: The author studied the temperature dependences of the electrical resistance of Mn-P alloys with 33-53 at.% These alloys were prepared from electrolytic manganese which was purified by sublimation, and from 99.9% pure red phosphor. The preparation of these alloys followed the technique described by Wiechmann (Ref. 3). The following five alloys were studied: Mn2P (33 at.% of P), Mn₂P + MnP (40 at.% of P), MnP + Mn₂P (46 at.% of P), MnP (50 at.% of P) and an alloy with 53 at.% of P. All these alloys were ferromagnetic. The samples were in the Their electrical resistance form of plane parallel plates. was measured by means of a d.c. potentiometer. The resistivities are given in a table on p 156 (in ohm.cm). Card 1/2 Fig.1 gives the temperature dependences of the electrical

SOV/126-7-1-26/28

Electrical Conductivity of Manganese Phosphides

resistance of Mn₂P and MnP between 77 and 370°K. The curves shown in Fig.1 and the curves obtained for the other three alloys all have a break at 22°C. This break is similar to that observed in ferromagnetics on passing through the Curie point. The authors conclude that in fact there is a Curie point at 22°C. There is 1 figure, 1 table and 4 references, of which 2 are French, 1 German and 1 Soviet.

ASSOCIATION: Institut fiziki metallov AN SSSR (Institute of Metal Physics, Ac.Sc. USSR)

SUBMITTED: March 4, 1958

Card 2/2

24(3) SOV/126-7-2-28/39

AUTHORS: Fakidov, I. G. and Krasovskiy, V. P.

Galvanomagnetic Properties of Manganese Phosphides TITLE: (Gal'vanomagnitnyye svoystva fosfidov margantsa)

PERIODICAL: Fizika Metallov i Metallovedeniye, 1959, Vol 7, Nr 2, pp 302-304 (USSR)

ABSTRACT: The authors studied the Hall effect and magnetoresistance of Mn-P alloys, with 33-53 at.% of P. These properties were studied in order to obtain information about the energy spectrum and density of current carriers, and to elucidate the effect of magnetic fields on the magnetic transition temperature, reported by Guilland The galvanomagnetic properties were measured on samples in the form of 11 x 5 x 0.8 mm plates. All measurements were carried out by the d.c. potentiometric method. The Hall effect was measured on samples with 33 at.% P (Mn₂P), 40 at.% P (Mn₂P + Mn₂P), 46 at.% P (Mn₂P + Mn₂P), 50 at.% P (Mn₂P). The sign of the of the Hall effect was positive in all the alloys studied, confirming the hole mechanism of conductivity. Thermoelectric power also indicated the positive sign of current carriers. The Card 1/4 Hall e.m.f. in a ferromagnetic may be represented in the

SOV/126-7-2-28/39 Galvanomagnetic Properties of Manganese Phosphides

> form $E = R_O H + R_f I$, where R_O is the ordinary Hall effect constant, H is the magnetic field intensity, R_f is the extraordinary Hall effect contant, and I is the magnetization. The value of R is related to the current-carrier density (Ref 4) and, therefore, this the current-carrier density (Ref 4) and, therefore, this density can be found from measurement of the Hall effect at temperatures sufficiently far from the ferromagnetic Curie point. The authors measured the Hall effect at 77°K, and the results are shown in the form of the Hall e.m.f. per unit length between the electrodes and per unit current density in Fig 1. The results of Fig 1 refer to the 50 at.% alloy (MnP) for which the value of R was found to be 3 x 10⁻⁴ cm /coulomb. Assuming that only holes exist in manganese phosphide, their density n was found from $R_0 = 1/\text{ne}$ (e is the hole charge). The value of n deduced in this way was 2×10^{22} cm⁻². The E = E(H) curves taken below and above the Curie point show that the Hall e.m.f. is a linear function of magnetization. The extraordinary Hall effect constant was found to decrease with

Card 2/4 temperature, in agreement with the Karplus-Luttinger

SOV/126-7-2-28/39

Galvanomagnetic Properties of Manganese Phosphides

relationship (Ref 5) $R_f \sim e^k$, where P is the electrical resistivity and k is an integer. The effect of transverse and longitudinal magnetic fields on electrical resistance of Mn-P alloys was measured on the same samples which were used in the Hall effect studies. sign of AR/R was negative in both transverse and longitudinal fields. The results of measurements exhibited the characteristics of even effects in the para-process region. According to Akulov (Ref 6), Δ R/R = aH²/3 at the region. According to akulov (Ref 6), \triangle R/R = ah at the Curie point, \triangle R/R = cH below the Curie point, and \triangle R/R = bH² above the Curie point. These relationships are well obeyed; for example, for 50 at % (MnP) alloy a = 1.4 x 10⁻² at 21°C, b + 5 x 10⁻¹² at 55°C, and c = 3.5 x 10⁻⁷ at 4.5°C. The value of \triangle R/R reaches its maximum, which is of the order of 1% for MnP, at 22°C (Fig 2) and this temperature is not affected by the composition of the alloy or the applied magnetic field. The temperature at which the maximum of Δ R/R occurs coincides with the temperature of a break in the curves of electrical resistivity. Δ R/R is practically the same in longitudinal and transverse fields; the small Card 3/4 differences between the longitudinal and transverse effects

SOV/126-7-2-28/39

Galvanomagnetic Properties of Manganese Phosphides

are due to changes of resistance in magnetic fields which occur in all substances and increase quadratically with the magnetic field. At the liquid-nitrogen temperature the change of resistance on application of a magnetic field is much smaller than at room temperature. This is due to the small contribution of the para-process which is negligible at the liquid-nitrogen temperature. There are 2 figures and 6 references, 2 of which are Soviet, 2 English, 1 German and 1 French.

ASSOCIATION: Institut fiziki metallov AN SSSR (Institute of Metal

Physics, Ac.Sc. USSR)

SUBMITTED: March 4, 1958

Card 4/4

18.1275

EOV/126-7-3-42/44

AUTHORS:

Krasovskiy, V. P. and Fakidov, I. G.

TITLE:

Thermoelectrical Properties of Manganese Phosphides (Termoelektricheskiye svoystva fosfidov margantsa)

PERIODICAL: Fizika metallov i metallovedeniye, Vol 7, Nr 3, pp 477-478 (USSR)

ABSTRACT: Slightly Abridged Translation

l. Manganese-phosphorus alloys containing from 27.5 at.% P upwards exhibit ferromagnetic properties at below 25°C, according to Guillaud (Ref.1). In the vicinity of that temperature a magnetic transformation occurs in these alloys, the temperature of which depends, to a large extent, on the magnetic field strength. However, investigations carried out by the authors of this paper into the electrical conductivity and galvanomagnetic effects of manganese-phosphorus alloys in the concentration range of 33 to 53 at.% P have shown that the temperature of the magnetic transformation is independent of the magnetic field strength of these alloys. The Curie point in an MnP alloy, according to electrical and magnetic Card 1/4 measurements, was found to be 22°C.

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Thermoelectrical Properties of Manganese Phosphides

2. Manganese volatilized in vacuum and red phosphorus (99.9%) were used for the manufacture of the alleys. alloys were made by heating a mixture of manganese and phosphorus powders in evacuated quartz ampoules at 650°C. In order to obtain the alloys in equilibrium condition the ampoules were kept in the furnace at the above temperature for 50 hours. The alloys were then furnace cooled to room temperature. The alloys thus obtained were chemically analysed in order to determine the manganese content, and were also submitted to an X-ray phase analysis. specimens were cut out by means of an alwasive wheel and subsequently The length of the specimens was 8-12 mm, width 3-5 mm and the thickness 0.6-1.5 mm. The thermo-e.m.f. was measured at temperatures ranging between that of boiling nitrogen and + 100°C. A temperature difference of 10-1500 was brought about between the ends of the specimen by means The junction of two identical copperof a small heater. constantan thermocouples was firmly pressed against the sides of the specimen. The thermal-e.m.f. of the specimen Card 2/4 was measured in relation to copper by a compensation apparatus having a sensitivity of 10" v/mm. The accuracy of the

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Thermoelectrical Properties of Manganese Phosphides

measurements of the thermal-e.m.f coefficient a was 10%.

Two manganese-phosphorus alloys were investigated: one containing 40 at. % P and the other 46 at. % P. are two-phased, consisting of the phases MnP and Mn2P. The results of measurement of the temperature dependence of the thermal-e.m.f. coefficient between - 180 and + 100°C for the above alloys are shown in Fig.1. From the graph it can be seen that the nature of the temperature dependence of for both alloys is identical. In the temperature range - 180 to - 50°C a decreases with increase in temperature, has a minimum at around - 50°C and then increases. temperature of above - 50°C the thermo-electrical properties of the alloys correlate with the results of electrical conductivity measurements (see Fig. 2). The metallic nature of the electrical conductivity indicates a small thermal-e.m.f. value (< / /v/deg.) and its temperature dependence, i.e. the value of 00 , is proportional to the temperature. behaviour of at below - 50°C is anomalous and cannot ox be correlated with the electrical conductivity measurements. Card 3/4 The reason for the nature of such a dependence of \propto (t)

sov/58-59-10-22982

Translation from: Referativnyy Zhurnal, Fizika, 1959, Nr 10,p 168 (USSR)

AUTHOR:

Krasovskiy, V.P.

TITLE:

Electrical and Galvanomagnetic Properties of Manganese Phosphides

PERIODICAL:

Tr. In-ta fiz. metallov. AS USSR, 1959, Nr 22, pp 59 - 66

ABSTRACT:

The author studied the electrical conductivity, the thermo-emf, the variation of resistance in a magnetic field, and the Hall effect in a number of alloys of the Mn-P system containing from 33 to 53 atomic % of F n the -156° to +100°C temperature range. The alloys were prepared from electrolytic Mn (99.99%), purified by sublimation in a vacuum, and red P (99.9%). In order to alloy the powdered mixture it was heated up to 650°C in evacuated quartz ampoules and aged for 50 hours. Cooling was conducted at the rate of 2 deg/min. For all alloys the temperature dependence of the specific resistance exhibits a ferromagnetic Curie point at 22°C. It is assumed that only the MnP contained in these alloys undergoes a ferromagnetic transition. The small magnitude of the thermoemf corresponds to the metallic character of the conductivity of these alloys, and its positive sign attests to p-conductivity. The variation

Card 1/2

CIA-RDP86-00513R0008262100 APPROVED FOR RELEASE: Monday, July 31, 2000

sov/58-59-10-22982

Electrical and Galvanomagnetic Properties of Manganese Phosphides

in resistance of the MnP alloy in a transverse magnetic field is negative for all temperatures and all fields up to 20 kilocersteds. The absolute magnitude of the galvanomagnetic effect is at its maximum at 22°C. The Hall effect has a positive sign in the case of all the alloys. Above 42°C the Hall emf depends linearly on the magnetic field, while below this temperature it presents the break which is characteristic of ferromagnetics. The carrier concentration for MnP, determined from the ordinary Hall constant, is equal to 2 · 10²2 cm²3 at -196°C, while the SSSR).

G.V. Fedorov

Card 2/2

CIA-RDP86-00513R000826210 "APPROVED FOR RELEASE: Monday, July 31, 2000

24(3)

AUTHORS:

Fakidov, I. G., Krasovskiy, V. P.

SOV/56-36-4-15/70

TITLE:

The Magnetization and the Magnetocaloric Effect of Manganese Phosphide (Namagnichennost' i magnetokaloricheskiy effekt

fosfida margantsa)

PERIODICAL:

Zhurnal eksperimental noy i teoreticheskoy fiziki, 1959, Vol 36, Nr 4, pp 1063-1067 (USSR)

ABSTRACT:

In the introduction the measurements and the theory of Guillaud (Refs 1-3) are discussed in short. Guillaud had shown that the temperature dependence of MnP at low temperatures follows the T2-law. The magnetic moment of a manganese atom was determined as amounting to 1.2 $\mu_{\rm B}$, and for the temperature of the magnetic transformation $\theta_{\mathbf{f}}$ Guilland mentioned 25°C and expressed the opinion that $\hat{e}_{\hat{f}}$ depends in a high degree on magnetic field strength. The authors of the present paper further investigated the magnetocaloric effect and the magnetization of Mn? within the temperature range of 0, and at various values of H. Preparation of the sample as well as course and method of

Card 1/4

The Magnetization and the Magnetocaloric Effect of Manganese Phosphide

measurements are described. The results are shown by means of diagrams and are discussed. An investigation of the temperature dependence of the electric resistance $\varrho = \varrho(t)$ and the magnetacaloric effect $\Delta t(t)$ showed the characteristic salient point in the curve (cf family of curves figure 1 for H-values between 1000 and 15000 Oe) at 22°C. The nature of this salient point is similar to that of ferromagnetics passing through Curie point. Figure 2 shows the dependence of the caloric effect 1t on the square of magnetization σ for $0 < \sigma^2 < 2000$ in 2 diagrams. The families of curves have a shape that deviates slightly from that of a straight line. Finally, the temperature dependence of the spontaneous magnetization $\sigma_{_{\mathbf{S}}}$ is investigated by the method developed by K. P. Belov (Refs 6-8). The method developed by Belov for ferromagnetic alloys and ferrites is called the "method of thermodynamic coefficients"; it is based upon evaluation of the curves of real magnetization by means of the thermodynamic equation $H = a\sigma + b\sigma^3$, where a and b are the thermodynamical coefficients. For H=0 it is found that near Curie temperature $\sigma_S^2=-a/b$, and it is possible to determine also the position of the Curie point by means of this equation,

Card 2/4

The Magnetization and the Magnetocalcric Effect of Manganese Phosphide

because for a = 0 it is true that T = θ_f . The results obtained by evaluation of measuring results with respect to the magnetization curve are shown by figure 3. Determination of the Curie point by employing the Belov-method gives the value of 21.10C, which is in agreement with the value determined from the magnetocaloric effect. Contrary to Guillaud, the authors found that magnetic transformation temperature does not depend on magnetic field strength. In conclusion, the results obtained are discussed in short from the point of view of the s-d exchange model (Vonsovskiy, Vlasov, reference 10). The f-values (from $(\sigma_8/\sigma_0)^2 = \frac{1}{5}(1-T/\theta)$) are approximately 3.4 (obtained according to data concerning the magnetocaloric effect) or approximately 3 (according to data obtained by employing the method of "curves of equal magnetization"), i.e. } corresponds approximately to the value obtained according to the "quasiclassical" theory of ferromagnetism. The authors thank K. B. Vlasov for letting them know the results obtained by his work and for discussions, and they also thank V. N. Novogrudskiy

Card 3/4

The Magnetization and the Magnetocaloric Effect of Manganese Phosphide sov/56-36-4-15/70

for assisting in measurements. There are 4 figures and 11 ${\tt ref.}$ erences, 5 of which are Soviet.

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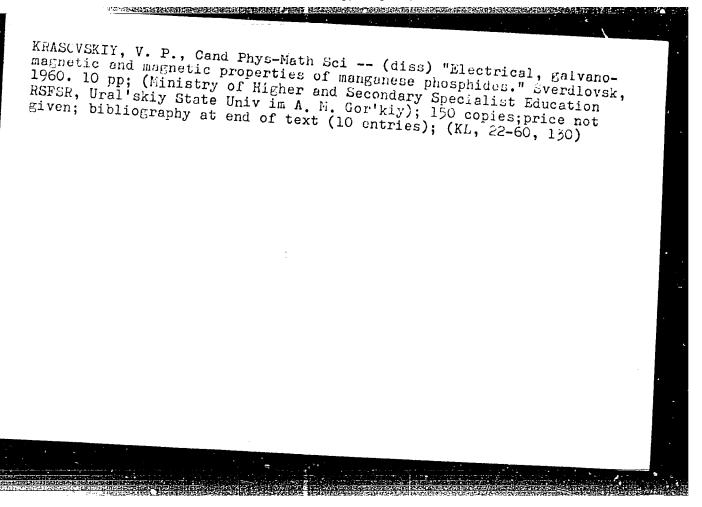
ASSOCIATION:

Institut fiziki metallov Akademii nauk SSSR (Institute for Metal Physics of the Academy of Sciences, USSR)

SUBMITTED:

October 23, 1958

Card 4/4



s/056/60/039/002/003/044 B006/B056

24.2200 AUTHORS:

Krasovskiy, V. P., Fakidov, I. G.

TITLE:

Within the Range of Low-The Magneto-caloric Effect

temperature Transformation of Magnetite

PERIODICAL:

Zhurnal eksperimental noy i teoreticheskoy fiziki, 1960,

Vol. 39, No. 2 (8), pp. 235-241

TEXT: The present paper makes a contribution towards explaining the nature of the low-temperature transformation of magnetite. The authors investigated the particular features of the magneto-caloric effect in this temperature range, as well as the temperature dependence of the first anisotropy constant. The investigations were carried out with two spherical magnetite single crystals of different stoichometric composition and two different potentiometric devices having a sensitivity of $\sim 10^{-8} \text{v/mm}$. The experimental arrangement and the performance of the experiments are described first; they were the same for both of the samples. The samples were demagnetized at room

Card 1/4

The Magneto-caloric Effect Within the Range of Low-temperature Transformation of Magnetite

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temperature, after which they were cooled to the boiling point of liquid nitrogen (without magnetic field). The temperature dependence of the magneto-caloric effect was studied while the samples were heated in a Dewar. Next, also the effect of the cooling conditions in the presence of a magnetic field of different strength upon the magnitude of the effect was investigated. Within the transformation range, the dependence of the magnitude of the effect ΔT on the field strength was measured; the measurements began at the lowest and extended up to the highest field strength. At low field strengths, magnetite has jumps in the magnetization I. The I(T)-measurements carried out in the range from 85° to 125°K showed that already at 15,000 oersteds no jumps occur any longer. In all cases H was parallel to the [11] direction of the single crystals. The absolute error in measurement of AT was about 2.10-30K. Fig. 1 shows $\Delta T = f(T)$ for both samples when heated (the samples had previously been demagnetized at room temperature and had been cooled to 80°K without a magnetic field). The curves had been drawn at 13,800 and 17,000 oe, respectively. They are in the negative range, first show a

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The Magneto-caloric Effect Within the Range of Low-temperature Transformation of Magnetite

S/056/60/039/002/003/044 B006/B056

steep decline, have a sharp minimum at 104° and 110°K, respectively, after which they rise just as steeply, and cut the zero axis at 145° and 125°K, respectively. In the positive range, ΔT slowly increases linearly with T. In the range of these minima of the curves, an "effect of the first measurement" could be observed (the first application of the field led to an irreversible temperature drop, and ΔT was about double as large as in the following experiments). Outside the range 95 - 115°K this effect practically does not exist at all. Fig. 2 shows the temperature dependence of the reversible magneto-caloric effect in the range of the minima. $\Delta T = f(H)$ is shown in Fig. 3 (recorded at 109.6°K). In fields up to 3000 oe, ΔT is positive, but attains only about 0.01°K. The sharp minimum of the temperature dependence of the magnetocaloric effect is related with a low-temperature transformation of magnetite in which the crystallographic symmetry of the lattice changes. Sample No. 2 showed a second minimum at about 90°K, which was, however, very flat; within this range, sample No. 1 only showed a greater spread of measured values; it is, however, possible that by means of more

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The Magneto-caloric Effect Within the Range of Low-temperature Transformation of Magnetite

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sensitive measuring instruments a minimum would be found also in this case. The temperature dependence of the first derivative of the anisotropy constant of sample No. 2 is shown in Fig. 4. It turned out that below the transformation point (110°K) the magnetite lattice is not cubic but rhombohedral. N. S. Akulov and N. L. Bryukhatov are mentioned. There are 4 figures and 16 references: 6 Soviet, 2 British, 6 US, 1 Dutch, and 1 Japanese.

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ASSOCIATION:

Institut fiziki metallov Akademii nauk SSSR (<u>Institute of</u> Physics of Metals of the Academy of Sciences of the USSR)

SUBMITTED:

February 19, 1960 (initially) and April 11, 1960 (after

Card 4/4

ANNENKOV, V.A.; CAZARYAN, L.M.; KRASOVSKIY, V.P.; POMERANTSEV, V.V.

"Economic aspects of nonferrous metallurgy in the U.S.S.R." by
S.A. Pervushin and others. Reviewed by V. A. Annenkov and others.

Izv. vys. ucheb. zav.; tsvet. met. 4 no.1:184-187 '61.

(Nonferrous metals—Hetallurgy) (Pervushin, S.A.)

(Rachkovskii, S. Ya.) (Gol'braikh, S. IA.)

(Malinova, R. D.) (Bykova, T. D.)

1164, 1138, 1160 24 2200 1137,1147,1158

S/126/61/011/002/025/025

E073/E535

AUTHORS:

Krasovskiy, V. P. and Fakidov, I. G.

TITLE:

On the Nature of the Magnetic Ordering of MnP

PERIODICAL: Fizika metallov i metallovedeniye, 1961, Vol.11, No.2,

pp. 319-320

TEXT: On the basis of earlier work the authors express a certain hypothesis on the nature of the magnetic ordering of MnP. The crystal lattice of MnP presents to some extent a distorted NiAs structure of the type with a rhombohedric elementary cell. Comparison of the crystal structure of MnP with the NiAs type structure is shown in the figure, where the circles of the larger diameter represent projections of atoms of P and Mn, the circles of the small diameter represent projections of atoms of the undistorted NiAs type structure. The top part of the figure shows a projection onto the plane (001), the lower part shows a projection onto the plane (010). The manganese atoms are not located on a straight line and form zigzag chains that are parallel to the axis b and the P atoms form chains that are parallel to the axis c. The axis b corresponds to the hexagonal axis c, whilst the axis c Card 1/5

On the Nature of the Magnetic ... \$/126/61/011/002/025/025 E073/E535

corresponds to the axis a of the structure NiAs in hexagonal representation. As regards the character of distribution of the atoms, the crystal lattice MnP is similar to the lattice of orthoferrites with a structure of the pseudo-perovskite type (space group $D_{2h}^{16} - Pb_{nm}$). The presence of such a structure permits distribution of magnetic moments that differ from the strictly parallel or antiparallel distribution, i.e. "angular" distribution of the magnetic atoms of the near neighbours is possible (the nearest "mighbours" in the illustration are at a distance of 2.69 A from each other). In presence of a relatively crystalline magnetic anisotropy, which apparently takes place in MnP (Ref.4), the possibility arises that the vectors of the magnetic moments will deviate from their planes and will be located at some (small) angle relative to each other (in accordance with the model of weak ferromagnetism proposed by I, Y. Dzyaloshinskiy (Ref.5). As a result, a spontaneous magnetic moment will arise which differs from zero and represents the vector sum of the magnetic moments of adjacent atoms. Since the electron states of the manganese atoms in the MnP compound are not known, the absolute values of the magnetic moments of the Card 2/5

On the Nature of the Magnetic...

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adjacent atoms are also not known. "Angular" distribution of the magnetic moments would permit elucidating the great difference between the magnitudes of the moments calculated for a manganese atom and those obtained from susceptibility measurements (3.6 $\mu_{\overline{b}}$) and the saturation magnetization (1.2 μ_g). The assumption of Guilland (Ref.6) on the presence of a ferromagnetic mechanism in MnP was not confirmed by the results of earlier investigations of the authors of this paper relating to the temperature dependence of the paramagnetic susceptibility and of the magnetocalorific effect. The theoretical calculation to be published by N. Guseynov and Ye. A. Turov (Izv. AN Azerb. SSR) confirms the assumptions of the authors of this paper of an "angular" distribution of the magnetic moments of adjacent atoms in MnP. calculation leads to an angle between the vectors of the magnetic moments amounting to 165° which, however, has to be experimentally verified. The most reliable means of establishing the magnetic structure of MnP is by means of neutron diffraction. X-ray spectrum analysis of MnP would also be useful, since it would permit elucidating the electron states of the manganese atoms in this compound. Investigation of the susceptibility of the para-Card 3/5

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S/126/61/011/002/025/025 E073/E535

process in strong magnetic fields (about 100 kOe) and of the temperature dependence of the magnetization in the temperature range 77-4.2°K may prove an indirect but very important method of case of angular distribution of the magnetic structure of MnP. In the in magnetization can be anticipated in strong magnetic fields (a gradual turning of the vectors of the magnetic moments into the value at low temperatures and should not tend to zero at T >> 0°K. magnetic pulse fields. There are 1 figure and 7 references: [Abstractor's Note: This is a climb!]

[Abstractor's Note; This is a slightly condensed translation.]
ASSOCIATION: Institut fiziki metallov AN SSSR

(Institute of Physics of Metals AN SSSR)

SUBMITTED 3

July 4, 1960

Card 4/5

S/126/61/011/003/017/017 E032/E514

AUTHORS:

Krasovskiy, V. P. and Fakidov, I. G.

TITLE:

A Study of the Specific Heat of Manganese

Monophosphide MnP

PERIODICAL:

Fizika metallov i metallovedeniye, 1961, Vol.11, No.3,

pp.477-479

TEXT: B. G. Whitmore (Ref.1) has established that manganese monophosphide has an anomaly in the specific heat curve at room temperatures. However, the method used by Whitmore is said to have been found insufficient to obtain accurate data on this anomaly. The present authors have investigated the anomaly using 99.99% pure manganese and 99.9% pure phosphorus. compound MnP was obtained by heating a mixture of manganese and phosphorus in evacuated quartz containers to 650°C. The mixtures were kept at that temperature for 50 hours. The specific heat was measured with the aid of the vacuum calorimeter described by I. G. Fakidov and N. P. Grazhdankina (Ref.6). In order to improve the heat transfer, the calorimeter was filled with the powder and then hydrogen gas was introduced at a pressure of 50 mm Hg. Card 1/3

A Study of the Specific Heat ... S/126/61/011/003/017/017 E032/E514

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temperature was measured with a platinum resistance thermometer having $R_{100}/R_0 = 1.390$. A potentiometer, having a sensitivity of 3×10^{-8} V/mm, was employed so that changes of the order of 10^{-5} ohm could be measured. This corresponded to a temperature change of 2.5×10^{-3} deg. The heat dissipated in the thermometer was 0.0002 of the power produced by the heaters. The results obtained are shown in the figure, in which the specific heat is given in cal/g deg. As can be seen from the figure, the anomaly reaches a maximum at 17°C. The temperature corresponding to the maximum is very close to the Curie point of MnP (22°C). The latter was determined by the present authors using the magneto-caloric effect (Ref.2). This suggests that the observed specific heat anomaly is of a ferromagnetic nature. The magnitude of the anomaly shown by the dashed line turns out to be 2.15 cal/mol deg. The corresponding figure for CrS_{1.17} was found in Ref.6 to be 2.58 cal/mol deg. The theoretical value obtained using measurements of the magneto-caloric effect (Ref.2) and the theory given by P. Weiss and R. Forrer (Ref. 8) gives a figure of 10 R cal/mol deg. Card 2/3

A Study of the Specific Heat ...

S/126/61/011/003/017/017 E032/E514

On the other hand, the method of "thermodynamic coefficients" given by K. P. Belov in Ref.9 gives 0.2 R cal/mol deg. It is concluded that the energy of magnetic crystallographic anisotropy in MnP is relatively large and this may be responsible for the difference between the theoretical (thermodynamic) and the experimental results for the anomaly. There are 1 figure and 11 references: 7 Soviet and 4 non-Soviet.

ASSOCIATION: Institut fiziki metailov AN SSSR (Institute of Physics of Metals AS USSR) Cp. rank-rpat callg-dag.

SUBMITTED: October 4, 1960

Figure

Card 3/3

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L 38267-65 EEO-2/EWI(d)/EEC-4 Pn-4/Po-4/Pq-4/Pg-4/Pk-4/P1-4 BC ACCESSION NR: AP5007443 S/0286/65/000/004/0068/0068

AUTHORS: Yerokhin, G. N.; Konstantinov, V. D.; Krasovskiy, V. S.; Kulagin, V. S.; Chernousenko, Yu. V.

TITLE: Method for checking the working order and accuracy of operation of in-bduction compasses and a device applying this method. Class 42, No. 168470

SOURCE: Byulleten' izobreteniy 1 tovarnykh znakov, no. 4, 1965, 68

TOPIC TAGS: compass 0

ABSTRACT: This Author Certificate presents a method for checking the working order and accuracy of operation of induction compasses, e.g., in aircraft, by creating an artificial magnetic field. To conduct the compass check without removing it from the object and without changing the object position in the earth's magnetic field, the earth's magnetic field is neutralized by creating an artificial magnetic field whose magnitude and direction are automatically determined. An artificial field of the earth, variable in any direction in the horizontal plane, can be reproduced; this acts on the sensing element of the induction compass. A device applying this method is provided with units for neutralizing and imitating the earth's magnetic rield in the form of electric coils. The coils,

Card 1/2

which define	and vary the artif	Cicial magnetic field of	f the earth, ar	e placed near	
or inside the sensing element of the induction compass and are engaged by the outer edge part of the device. ASSOCIATION: Voyenno-vosdushnaya inzhenernaya ordena Lenina krasnoznamennaya akademiya im. prof. N. Ye. Zhukovskogo (Air Force Engineering Academy, Lenin's Order of the Red Banner)					
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KRASOVSKIY, Ye.

Moving Pictures

White Russia's best film supply depot. K.nomekhanik no. 8, 1951.

Monthly List of Russian Accessions, Library of Congress, April 1952. UNCLASSIFIED.

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R0008262100

KRASOVSKIY, YE.

Moving-Picture Projection

Clipping film perforations, Kinomekhanik, no. 7, 1952.

Monthly List of Russian Accessions, Library of Congress, October 1952. UNCLASSIFIED

KRASOVSKIY, 'V.V.; PROTOPOPOV, A.N.

Complications of staphylococcal pneumonias in children.
Pediatriia 41 no.9:7-11 S '62. (MIRA 15:12)

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1. Iz detskoy khirurgicheskoy kliniki (dir. - prof. N.V. Zakharov) i kafedry rentgenologii i radiologii (zav. - prof. V.N.Shtern) Saratovskogo meditsinskogo instituta.

(STAPHYLOCOCCAL DISEASE) (PNEUMONIA)

KTASOVSKIYE. B. Topographical and morphological variations in arachnoid endotheliomas Problems of Neurosurgery, Moscow 1949, 13/3 (22-32) Tables 3 Illus. 3

A survey of 290 cases of meningioma, seen from 1932-1947, in which Cushing's classification is closely followed. The topographical situation of the tumour may induce its histological type; for instance psammomas were more frequent among spinal meningiomas, probably because of less favourable conditions and, consequently, earlier involution of the tissue of the tumour.

Boerman - Chram (VIII. 5)

So: Neurology & Psychiatry Section VIII Vol. 3 No. 7-12

KRASOVSKIY, Ye.B.

Problem of perithelial sarcomas of the brain. Vopr. neirokhir. 16 no. 4:33-37 July-Aug 1952. (CIML 23:3)

1. Candidate Medical Sciences. 2. Of the Pathologico-anatomic Laboratory (Head -- Prof. L. I. Smirnov, Corresponding Member AMS USSR), Institute of Neurosurgery imeni Academician N. N. Burdenko (Director -- Prof. B. G. Yegorov, Corresponding Member AMS USSR), Academy of Medical Sciences USSR.

KRASOVSKIY, Ye.B.; SMIRNOV, L.I., chlen-korrespondent Akademii meditsinskikh nauk SSSH, professor, saveduyushchiy; YEGOROV, B.G., chlen-korrespondent Akademii meditsinskikh nauk SSSR, professor, direktor.

Local changes in cranial bones in malignant arachnoidal endothelioma. Vop. neirokhir. 17 no.2:32-39 Mr-Ap '53. (MLRA 6:5)

1. Patologoanatomicheskaya laboratoriya Instituta neyrokhirurgii imeni akademika N.N. Burdenko (for Smirnov). 2. Institut neyrokhirurgii imeni akademika N.N. Burdenko (for Yegorov). 3. Akademiya meditsinskikh nauk SSSR (for Smirnov and Yegorov). (Brain-Tumors)

KRASOVSKIY, Ye.B. (Moscow).

Malignant arachnoendothelioma. Arkh.pat. 16 no.1:57-64 Ja-Mr '54. (MLRA 7:5)

1. Iz patologoanatomicheskoy laboratorii (zaveduyushchiy - chlen-korrespondent Akademii meditsinskikh nauk SSSR L.I.Smirnov) Instituta neyrokhirurgii im. akademika N.N.Burdenko (direktor - chlen -korrespondent Akademii meditsinskikh nauk SSSR B.G.Yegorov) Akademii meditsinskikh nauk SSSR. (Brain--Tumors)

EMBLYMET, To. 3.

EMBLYMET, To. 5. "Frienry sarcom and surcom-like tunors of the brain and brain remiremen" (Pathological analogy). Hoscom, 1955. Acad to deal Sci Hall. (Dissertations for degree of Doctor of Medical Sciences.)

Sc: Indianaya latogic!, No ha. 26 November 1959. Loscom.

KRASOVSKIJ, J.B.

Differential diagnosis of intracranial tumors. Cesk. neur. 20 no.2:93-101 Mar 57.

1. Vyskumny ustav psychiatrie Ministerstva zdravotnictvi SSSR, reditel D. D. Fedotov.
(CRANIUM, neoplasms

differ. diag., review (Cz))

ERASOVSKII, Ye.B.

Pathoanatomical changes of the brain in certain intracranial tumore [with summary in French]. Zhur.nevr.i psikh.57 no.4:451-456 '57.

(MIRA 10:7)

1. Institut psikhiatrii Ministerstva zdravookhraneniya SSSR.

(BRAIN NEOPLASMS, pathology, sarcoma (Rus))

(SARCOMA, pathology, brain (Rus))

"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000826210

USSR / Human and Animal Morphology. Nervous System. S-2

Abs Jour: Rof Zhur-Biol., No 14, 1958, 64763.

Author

: Krascvskiy, Yo. B. : Scientific Rosearch Institute of Psychiatry, Inst

Ministry of Health of USSR.

Title : Pathological Anatomy of Diseases of the Cerebrum.

Orig Pub: M-vo Zdravookhr SSSR. n.-i.in-t psikhiatrii. M.,

1957, 271 pp., ill., 12 r.

Abstract: No abstract.

Card 1/1

S-2

USSR/Human and Animal Morphology (Normal and Pathological). Nervous System. Central

Nervous System.

Abs Jour: Ref Zhur-Biol., No 16, 1958, 74293

Author : Krasovskiy, Ye. B. Inst

Title : On the Structural Changes of the Brain,

Especially of the Hypothalamic Region in

Schizophrenia.

Orig Pub: V sb.: Vopr. psikhiatrii. Vyp. 2, M., 1957,

66-69

Abstract: In various clinical forms of schizophrenia

with a chronic course in cerebrum (in the cortex and subcortical ganglia), there is a diffused dystrophic and atrophic process with a loss of neurons. The greatest number

Card : 1/3

USSR/Human and Animal Morphology (Normal and Pathological). Nervous System. Central Nervous System.

S-2

Abs Jour: Rof Zhur-Biol., No 16, 1950, 74293

of structural changes of the norvo cells is noted in the III layer of the cerebral cortex, especially in the frontal region. The dystrophic process in the neurons of the pons Varolii and medulla oblongata are expressed in disturbances of protein, fat and H₂O metabolisms. In the semioval centers of the large hemispheres, edema and swelling of the brain are found; in foci of denyelinization and in the hypothalamic region - a sharp fatty dystrophy of nerve cells with disintegration and loss of bundles of myeline fibers, especially those which run from the optic

Card : 2/3

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*MARSONDLIN, Te. B., Die Ved Sei--(die) "Peirs ry serre von val erwest in
.os of the lamba and medica. (Pethologia 1 / tang)." Van, 105°, 26 pr

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KRASOVSKIY, Ye.B... FEDOTOV, D.D., prof., red.

[Arachnoidendoitothelimoas of the central nervous system; pathological anatomy] Arakhnoidendoteliomy tsentral noi nervnoi sistemy; patologicheskais anatomiia. Moskva, Vses. ob-vo nevropatologov i psikhintrov, 1958. 303 p. (MIRA 11:12)

1. Direktor Nauchno-issledovatel'skogo instituta psikhiatrii Ministerstva zdravookhraneniya SSSR(for Fedotov).

(MENINGES--TUMORS)

KRASOVSKIY, Yevgeniy Borislavovich; FEDOTOV, D.D., prof., red.

[Tumors of the brain and the neninges] Opukholi wozga i mozgovykh obolochek; patologicheskaia anatomiia. Moskva, M-vo zdravookhraneniia SSSR. Vol.1. 1958. 409 p. Vol.2.
1958. 810 p. (MIRA 12:1)

(BRAIN--TUMORS) (MENINGES--TUMORS)

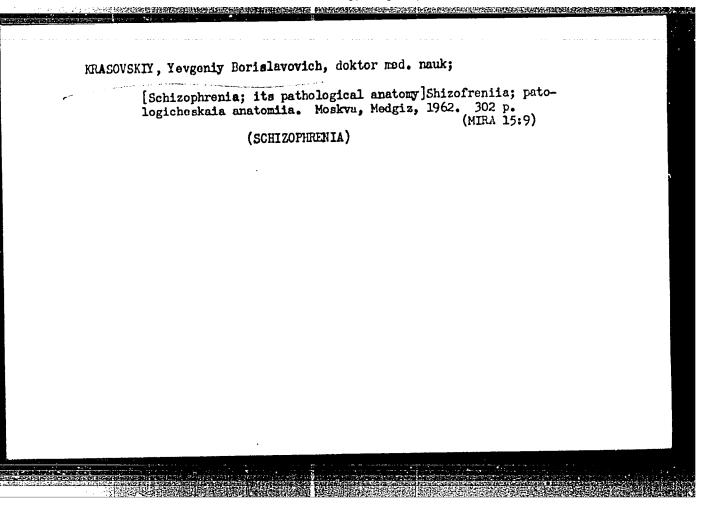
Dependence of the structure and topography of an arachnoendothelioma on the patient's age. Vop. psikh. no. 3:382-386 '59. (BRAIN—TUMORS) (BRAIN—TUMORS)

KRASOVSKIY, Yevgeniy Borislavovich, doktor med. nauk; LAGUTINA, Ye.V., red.; NAZAROVA, A.S., tekhn. red.

[Nervous system and health]Nervnaia sistema i zdorov'e. Moskva, Izd-vo "Znanie," 1962. 45 p. (Narodnyi universitet Kul'tury; Fakul'tet zdorov'ia, no.6) (MIRA 15:8)

(NERVOUS SYSTEM)

(HYGIENE)



MATSPANOVA, O.D., kand. med. nauk; IANKOVITS, A.V., prof.;
KRASOVSKIY, Ye.B., doktor med. nauk, red.; LIPENZON,
L.L., kand. med.nauk, red.

[Authors abstracts of scientific papers completed in 1961] Avtoreferaty nauchnykh rabot, vypolnennykh v 1961 g. Red. koll.: 0.D.Matspanova i dr. Moskva, 1962. 118 p. (MIRA 16:11)

1. Moscow. (Province) Oblastnoy nauchno-issledovatel'skiy institut akusherstva i ginekologii. 2. Direktor Moskovskogo oblastnogo nauchno-issledovatel'skogo instituta akusherstva i ginekologii (for Matspanova). 3. Zamestitel' direktora po nauchnoy chasti Moskovskogo oblastnogo nauchno-issledovatel'skogo instituta akusherstva i ginekologii (for Lankovits). (OBSTETRICS) (GYNECOLOGY) (PEDIATRICS)

Whit for washing antifriction bearings. Torf.prom.38 no.2:37 '61.

(MIRA 14:3)

1. Ryazanovskoye torfopredpriyatiye Mosobleovnarkhoza.

(Bearings (Machinery))

SOV/112-59-2-2996

Translation from: Referativnyy zhurnal. Elektrotekhnika, 1959, Nr 2, p 107 (USSR)

AUTHOR: Shapovalenko, A. G., Lauer, V. V., and Krasovskiy, Ye. P.

TITLE: Feasibility of a Vibrating-Contact-Type Speed Regulation for an Induction Motor Fed by a Single Generator of Commensurable Capacity (O vozmozhnosti impul'snogo regulirovaniya skorosti asinkhronnogo dvigatelya, pitayushchegosya ot avtonomnogo generatora soinmerimoy moshchnosti)

PERIODICAL: Izv. Kiyevsk. politekhn. in-ta, 1957, Vol 26, pp 283-290

ABSTRACT: A vibrating-contact-type speed regulation for a wound-rotor induction motor fed by a synchronous generator of commensurable capacity is described. The system has fairly rigid mechanical characteristics within 10-20% of the rated speed range with a load torque within 100%. Resistors are connected in the rotor circuit of the motor. The rotor circuit is alternately closed and opened by a contactor. A 2-winding relay controls the contactor. One winding is supplied with a rectified voltage taken from the motor stator while the other

Card 1/2

SOV/112-59-2-2996

Feasibility of a Vibrating-Contact-Type Speed Regulation for an Induction Motor .

winding is fed from the rotor circuit. If the motor speed droops, the relay operates, closing the rotor circuit, and the motor speeds up. If the motor speed exceeds its average value, the relay armature drops out, opening the rotor circuit and the speed becomes lower; then the cycle is repeated. The open and closed contactor times can be determined from the linearized mechanical characteristic of the motor. The rigidity of the motor mechanical characteristic is computed with due allowance for the generator synchronous reactance. The experimental outfit consisted of a type SGS-4.5 generator (4.5 kw, 230 v, 11.3 amp) and an AK51/4 motor (2.8 kw, 1,370 rpm, 220 v, 11.5 amp) and an 11.8-kg-m² flywheel. Oscillograms of full rpm cycles with various loads are presented. Frequency of contactor operation varied from 0.18 to 0.8 cps. Bibliography: 5 items.

V.V.G.

Card 2/2

KRASOVSKIY, Ye.P.

Speed control of an induction motor with a phase rotor by means of saturation chokes. Izv. KPI 26:305-314 '57. (MIRA 11:6)

1. Kafedra elektrifikatsii promyshlennykh predpriyatiy Kiyevskogo politekhnicheskoge instituta.
(Electric motors, Induction) (Automatic control)

KRASOVSKIY, Ye.P., kend. tekhn. nauk; LAUER, V.V., inzh.; SHAPOVALEHKO,
A.G.

Alternating-current time relay using a magnetic amplifier. Izv. vys.
ucheb. zav.; energ. no. 1:59-64 Ja '53. (MIRA 11:7)

1. Kiyevskiy ordena Lenina politekhnicheskiy institut.
(Electric relays)
(Magnetic amplifiers)

102-58-1-8/12

Krascys'kry, E.P., Lauer, V.V. and Shapovalenke, O.G. AUTHORS:

Use of Pulse Control to Produce Low Speeds in Industion TITLE: Metur Drives (Zastosavannya impulisnego upravlinnya z metoyu cderzhannya niz'kykh shvydkostey v elektropryvodakh

z asinkhronnymy dvygunamy)

Aghematika (Kiyev), 1958, Nr 1, pp 75 - 84 (Ukrainian SSR) PERIODICAL:

The advantages of this system when the time spent at ABSTRACT: low speeds is short (cheapness, simplicity) are pointed out and two new circuits using polarised relays on three-phase circuits are given. The time for which it is permissible to operate the motor in this way increases with the moment of inertia of the system (referred to the motor shaft). The speed can be varied from 0.04 to 0.20 of the synchronous speed, the speed-load characteristic being very flat. A motor with a phase fed rotor is, of course, required; in this case, derivative (velocity) feedback can be effected by using the back-e.m.f. of the rotor, no tachemeter being needed. The motor is caused to accelerate and decelerate by closing and 1460 r.p.m. motor has opening the rotor circuit. A 37-kW been used to test the circuits; at a mean speed of 90 r.p.m., the fluctuations were + 10 r.p.m., with a referred moment of Card 1/2 card 1/2 card 1/2

CIA-RDP86-00513R000826210 "APPROVED FOR RELEASE: Monday, July 31, 2000

162 58-1-8/12

Use of Pulse Control to Produce Low Speeds in Industran Motor Drives

There are 6 figures and 2 Soviet references.

ASSOCIATION:

Kyrva'kyy ordena Lenina politekhnichnyy instytut (Kiyev Order of Lenin Polytochrical Institute)

SUBMITTED: February 27, 1957

Card 2/2

8(2)

SOV/107-58-12-40/55

AUTHORS:

Krasovskiy, Ye., Lauer, V., Shapovalenko, A.

TITLE:

Voltage Indicators for Autotransformers (Indikatory napryazheniya dlya avtotrans-

formatorov)

PERIODICAL:

Radio, 1958, Nr 12, p 43 (USSR)

ABGTRACT:

The authors describe two simple voltage indicator circuits for autotransformers for controlling the voltage supply of television sets and radios. The first one (Figure 1a) contains two filament lamps switched in to the input of the transformer, one (L1) directly and the other (L2) through the resistance R. This indicator works on the principle of the considerable dependance of the filament lamp luminous flux on the current flowing through it. Experiments have shown that this indicator can regulate a voltage with an accuracy of +3 to -5%.

Card 1/2

SOV/107-58-12-40/55

Voltage Indicators for Autotransformers

the second indicator (Figure 16) a choke DR (with a steel core without an air gap), a capacitor C and a filament tube L, connected to part of the autotransformer winding, are used. At a nominal voltage, automatic oscillations are present in the indicator, which make the lamp flicker; if the voltage is higher than the nominal it burns without flickering and if it is lower than nominal it does not light up at all. The indicator has an accuracy of plus or minus 3%. There are 2 circuit diagrams.

Card 2/2

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KRASOVSKIY, Yevgeniy Fetrovich, kand. tekhn. nauk; SHAFOVALENKO, Aleksandr Grigor'yevich, kand. tekhn. nauk; KOSTENKO, Yu.V., retsenzent; FOLYANSKIY, N.A., inzh., red.

THE STATE OF THE STATE OF THE DESIGNATION OF THE STATE OF

[Automatic control of asynchronous motors] Avtematicheskoo upravlenie asinkhronnymi dvigateliami. Riev, "Tekhnika," 1964. 170 p. (MIRA 17:7)

RASOVSKIY, Ye.S.; ZAIKIN, N.N.

Modernization of equipment. Hashinostroitel' no.4:22-25 Ap '57.
(MLRA 10:5)

BRUSILOVSKIY, D.A.; BULGAKOV, L.N.; GENIS, B.M.; KVARTIR, L.M.;

KRASOVSKIY, Ye.S.; MIKHAYLOV, D.I.; NATOCHANNYY, A.S.; NIKOL'SKIY,

V.N.; POPOV, M.P.; SIGODZIRSKIY, A.A.; SKOMOROSHKIR, A.F.;

CHASOVNIKOV, G.V.; DERBISHER, A.V., kand. ekon. nauk, red.;

DULKIN, N.A., spets. red.; BONDAROVSKAYA, G.V., red.; TORSHINA,

Ye.A., tekhn. red.

[Overall automation and modernization of equipment and production processes at the First State Bearing Plant] Kompleksnaia avtomatizatsiis i modernizatsiis oborudovaniia i protsessov proizvodstva na Pervom gosudarstvennom podshipnikovom zavode. Moskva, TSentr. biuro tekhn. informatsii. 1959. 84 p. (MIRA 15:1)

1. Russia (1917- R.S.F.S.R.) Moskovskiy gorodskoy ekonomicheskiy administrativnyy rayon. Sovet narodnogo khozayastva.

(Moscow-Bearing industry) (Automation)

S/117/62/000/007/002/003 A004/A101

AUTHOR:

Krasovskiy, Ye. S.

TITLE:

Automatic wear compensation

PERIODICAL: Mashinostroitel', no. 7, 1962, 14

TEXT: The author reports on a method of automatically compensating for the wear of guides, suggested by professor A. S. Pronikov, Doctor of Technical Sciences, which was carried out on the MC3 (MS3) model 3250B internal grinder. Based on the combined work of MVTU im. Bauman and IGPZ, the machine was equipped with an automatic table position compensator and special supports in the form of plastic inserts. The operating principle of the automatic compensators consists in that, in the case of wear or deformation of the supports, the inserts are fed automatically and the table preserves its accuracy. The table position is controlled by electrocontact pickups which are periodically switched on for a short time interval. The automatic adjustment of the table position is arranged in such a way that, in proportion to the wear of the plastic supports, the table, being lowered with the aid of a cam fastened to it, gives a command to an elec-

Card 1/2

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S/117/62/000/007/002/003 A004/A101

Automatic wear compensation

tromagnet via the electrocontact pickup, which causes the plastic supports to rise. A total of six plastic supports are mounted on the machine. The compensation for wear of the guides can be operated also by hand. The automatic wear compensation of the machine guides maintains its accuracy during the whole service life. It prevents the wear of the machine bed and makes it possible to use hardened table guides.

Card 2/2

KOSOV, F.F.; KRASOVSKIY, Ye.S.; DAVYDOV, V.N.

Problems of railroad electrification on single-phase current.

Transp.stroi. 12 no.7:10-13 Jl '62. (MIRA 16:2)

1. Machal'nik Gosudarstvennogo proyektao-isyskatel'skogo instituta po proyektirovaniyu elektrifikatsii doreg i energeticheskikh ustanovok (for Kosov). 2 Machal'nik tekhnicheskogo otdela Gosudarstvennogo proyektno-izyskatel'skogo instituta po proyektirovaniyu elektrifikatsii dorog i energeticheskikh ustanovok (for Krasovskiy). 3. Glavnyy spetsialist Gosudarstvennogo proyektnoizyskatel'skogo instituta po proyektirovaniyu elektrifikatsii domog i energeticheskikh ustanovok (for Davydov). (Railroads-Electrification)

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